



DEUTSCHE BÖRSE
CASH MARKET

T7 Release 11.0

Final Release Notes

for the Trading Venues Xetra and Börse Frankfurt

Version 1.0

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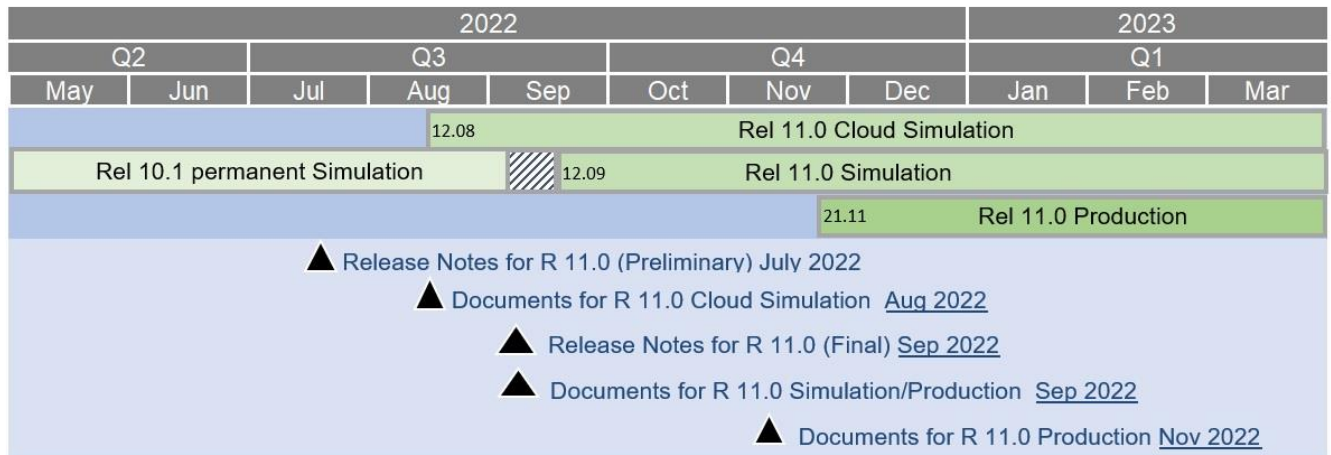
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1. Overview of T7 Release 11.0

Deutsche Börse AG is planning to launch T7 Release 11.0 on 21 November 2022.

The following diagram gives an overview of the introduction schedule:



Deutsche Börse AG provides a dedicated release simulation environment in order to give trading participants the opportunity to perform comprehensive testing of their trading applications independent from the T7 production environment. The simulation period for T7 Release 11.0 is planned to start on 12 September 2022.

In addition, and prior to the T7 release simulation, Deutsche Börse AG offers a T7 Release 11.0 Cloud Simulation to allow trading participants and Independent Software Vendors (ISVs) to test the T7 Release 11.0 ETI, FIX LF interface, as well as RDI, MDI, EMDI and EOBI interface changes. In the Cloud Simulation, participants can initiate predefined market scenarios and test specific strategies more easily than in a shared environment. The Cloud Simulation is available around the clock for a fixed price per hour and started on 12 August 2022.

For more information on the T7 Cloud Simulation, please refer to <http://www.xetra.com/xetra-en/technology/t7/cloud-simulation>.

1.1 New Features and Enhancements Overview

The following new main features and enhancements will be introduced with T7 Release 11.0:

	Relevant for	
	T7 Xetra	T7 Börse Frankfurt
Pre-Trade Risk Limits for Xetra based on the notional value	x	
Enhancement for Xetra EnLight Quotes	x	
Message Encryption for ETI Low Frequency Gateways	x	x

1.2 Note on Interfaces

T7 Release 11.0 **will not provide** backwards compatibility for the T7 ETI / FIX LF interface version 10.1, i.e., participants will have to use the new functionality and **will not be able** to connect to T7 with the interface layout version 10.1 anymore, after the production launch of T7 Release 11.0.

Public market and reference data interfaces, including EOBI, EMDI, MDI, RDI/RDF, as well as reports and data files, will not provide backwards compatibility.

1.3 Further Reading

The existing documents have been or will be revised for T7 Release 11.0. The following table provides an overview of the schedule for the publication:

T7 Release 11.0	Derivatives Markets	Cash Markets	Combined	Q3/ 2022			Q4/ 2022	
				Jul	Aug	Sep	Oct	Nov
T7 Release 11.0 - Release Notes	X	X		◆		●		
T7 Functional Reference			X			●		
T7 Functional and Interface Overview			X			●		
T7 Participant Simulation Guide			X			●		
T7 Cross System Traceability			X			●		
T7 Incident Handling Guide			X			●		
T7 Participant and User Maintenance Manual	X	X				●		
Contract Notes Description		X						●
T7 Known Limitations			X			■		●
T7 Trader, Admin and Clearer GUI – User Manual	X	X				●		
T7 Trader, Admin and Clearer GUI – Installation Manual			X			●		
T7 Enhanced Trading Interface – Manual incl. XSD, XML Representation and Layouts			X			■		●
T7 FIX LF – Manual incl. XML Representation and FIX Repository			X	◆		■		●
T7 Market-, Enhanced Order Book- and Reference Data Interfaces Manual incl. Fast Message Template, Repository & FIXML Schema Files			X	◆		■		●
T7 Extended Market Data Services – Manual incl. Fast Message Template and Underlying Ticker Data			X			■		●
Cash Market Instrument Reference Data Guide		X						●
T7 XML Report Reference Manual			X			■		●
Common Report Engine User Guide			X			●		
Common Upload Engine User Guide			X			●		
Exchange Rules & Regulations		X						●
Market Models		X						●

◆ Cloud Simulation/Preliminary Version ■ Simulation Version ● Production/Final Version

Please note that the outlined schedule is subject to change.

The documents will be available on the Xetra website www.xetra.com under the path:

> Technology > T7 Trading Architecture > System Documentation > Release 11.0

1.4 Contacts

If you have any questions or require further information, please contact your Global Key Account Manager Trading. Alternatively, please contact your Technical Key Account Manager using your VIP number or via e-mail to: cts@deutsche-boerse.com.

1.5 Definitions and Abbreviations

Term/Abbreviation	Description
BFZ	Börse Frankfurt Zertifikate AG is a subsidiary of Deutsche Börse AG. The marketplace offers trading in certificates, warrants and reverse convertibles.
Börse Frankfurt	Trading venue of FWB, where equities, bonds, ETFs, ETCs, ETNs and funds are traded.
BU	Business Unit
CRE	Common Report Engine
DBAG	Deutsche Börse AG
DSCP	Differentiated Services Field Codepoints
EMDI	T7 Enhanced price level netted Market Data Interface
EOBI	T7 Enhanced Order Book Market Data Interface
ETI	T7 Enhanced Trading Interface
FIX LF	Financial Information eXchange (protocol) Low Frequency interface
FWB	Frankfurter Wertpapierbörse
GUI	Graphical User Interface
HF	High Frequency
LF	Low Frequency
LTP	Last Trade Price
MDI	T7 netted price level aggregated Market Data Interface
Net Position (Buy or Sell)	The net position of the trading side is defined as the accumulated traded notional value of that trading side minus the accumulated traded notional value of the opposing side resulting from the execution of orders or quotes.
PTRL	Pre-Trade Risk Limits
RDF	T7 Reference Data File
RDI	T7 Reference Data Interface
SRQS	Selective Request for Quote Service, i.e. Xetra EnLight
T7	The trading architecture developed by Deutsche Börse Group
TES	T7 Entry Service
Xetra EnLight	Xetra EnLight is a price discovery service offered by Xetra on the T7 platform to negotiate TES transactions electronically

XETR

Market Identifier Code (MIC) of trading venue T7 Xetra

XFRA

Market Identifier Code (MIC) of trading venue T7 Börse Frankfurt
including Börse Frankfurt Zertifikate

2. Pre-Trade Risk Limits based on the Notional Value

With T7 Release 11.0, the Pre-Trade Risk Limits (PTRL) functionality will be introduced for on-book trading in the trading venue Xetra to improve risk management capabilities of Xetra trading participants for CCP cleared products.

The PTRL functionality will allow trading participants, clearing members and the exchange to set limits for the daily maximum notional value of all entries, modifications and executions of orders and quotes per product and trading side. The setting of the PTRL by the exchange, clearing member, and trading participant is referred to as *PTRL Definition*.

The accumulated notional value of open orders and quotes per trading side and the net position of trades executed per trading side throughout the day will be referred to as *PTRL Consumption*. Prior to the acceptance of an incoming order or quote transaction, it will be checked whether the *PTRL Consumption*, which at that point in time will include the notional value of the new incoming transaction, will exceed the *PTRL Definition*. If the incoming transaction would cause a violation of any of the *PTRL Definitions*, the incoming transaction would be rejected. Since deletions of open transactions always lead to a reduction of the *PTRL Consumption*, they are always accepted.

2.1 Functional Description

2.1.1 The PTRL Definition

The PTRL limits can be defined by various actors for various scopes:

- The exchange can define PTRL limits for each participant respectively business unit.
- Clearing members will be able to define PTRL limits for their clearing-related participants. Please note that a Settlement Institute (SI) member will not be able to define PTRL limits for its non-clearing members if it is not the clearing member.
- Each participant will be able to define PTRL limits for individually defined user risk groups. User risk groups are a new type of grouping of a participant's users introduced especially for the purpose of assigning PTRL. The definition of user risk groups is required to assign PTRL.

On all three levels, a long and a short notional value limit can be defined per product separately.

Intraday changes to any PTRL limits will become effective immediately. The exchange will define which products will be eligible for the new PTRL functionality.

The roles *Pre-Trade Limits* and *Pre-Trade Limits View* will be assigned automatically to all existing trading business units for Xetra. The roles *CM Pre-Trade Risk Maintenance* and *CM Pre-Trade Risk View* will be assigned automatically to all existing clearing business units for Xetra.

The *View* roles will enable users to view existing limits, the other roles will enable the maintenance. All participants intending to use Pre-Trade Risk Limits need to assign the roles afterwards to their users, beginning on day 1 of T7 Release 11.0.

The PTRL limits will be maintained via ETI or via GUI. Clearing members will define the limits for their non-clearing members via the T7 Clearer GUI. Participants will define the limits for their user risk groups via the T7 Admin GUI.

2.1.2 Calculation of PTRL Consumption of Notional Value

The most important difference to the Eurex PTRL functionality will be that while for Eurex the PTRL limits are defined as quantity limits, the PTRL limits in Xetra will be defined as limits to the notional value, i.e. the quantity multiplied by a PTRL reference price.

The PTRL reference price will be determined at the time of the entry/modification of the order or quote and used as reference for the *PTRL Consumption* calculation of open orders/quotes. Once an execution takes place, the execution price will be used to determine the *PTRL Consumption* of the executed orders/quotes and the PTRL reference price will be used to reduce the open order/quote *PTRL Consumption*.

PTRL reference price			
Order Type	Upon Entry	Upon Modification	Upon Order Book Restatement (Start of Day/Failover)
Buy Limit Order resp. Quote Bid	Limit Price	Limit Price	Limit Price
Sell Limit Order resp. Quote Ask	Maximum of Limit Price, LTP	Maximum of Limit Price, LTP	Maximum of Limit Price, LTP
Market Order Buy and Sell	LTP at time of order entry	LTP at time of order modification	Start of Day: Adjusted reference price from End of Day processing. Failover: The LTP before the failover.

The calculation of the *PTRL Consumption* will be performed in the following way:

PTRL Consumption Buy =

$$\begin{aligned} & \text{Quantity of open orders (quotes) on Buy side} * \text{PTRL reference price} \\ & + \text{Net Position Buy} \end{aligned}$$

PTRL Consumption Sell =

$$\begin{aligned} & \text{Quantity of open orders (quotes) on Sell side} * \text{PTRL reference price} \\ & + \text{Net Position Sell} \end{aligned}$$

The Net Position (Buy/Sell) reflects the executed notional value and is reset to 0 at start of day.

2.1.3 Further Functional PTRL Information

For orders with trading restrictions IOC, BOC and FOK, the complete quantity will be considered for the evaluation of the *PTRL Consumption* at the time of the order entry/modification.

For VDO and Iceberg orders, the full quantity will be considered for the evaluation of the *PTRL Consumption* at the time of the order entry/modification.

For orders with the restrictions

- Auction Only
- Intraday Auction Only
- Opening Auction
- Closing Auction

- Trade at Close

the *PTRL Consumption* will only be evaluated at the time of the order entry or modification but not when the auction call phase starts.

In case of a Market Reset, the restated orders are re-accumulated as open limits of the respective trading sides.

Trade Reversals will not cause an update of the net position.

2.2 Impact on Interfaces

The following chapter outlines the changes to interfaces to support the functionality. The changes are described in a general fashion to provide an indication of the upcoming amendments. For detailed changes, please refer to the interface manuals and to the *Online Help* in the GUIs.

2.2.1 ETI

The following messages will be modified:

- Pre-Trade Risk Limits Definition Request
- Pre-Trade Risk Limit Response
- Inquire Pre-Trade Risk Limits Request

2.2.2 T7 GUIs

The currently existing Eurex views for Pre-Trade Risk Limits in the T7 Trader, T7 Clearer, and T7 Admin GUIs will be adapted for Xetra. To increase the usability, the maintenance of PTRL will also be supported by a file upload functionality.

2.2.3 XML Reports

There will be a new XML report TT138 Pre-Trade Risk control for Cash. The new report will list all Pre-Trade Risk Limits for on-book trading per business unit at the start of the day and all corresponding maintenance activities during the day.

3. Enhancements for Xetra EnLight Quotes

With T7 Release 11.0, Xetra will introduce the following changes in the Xetra EnLight functionality:

- Xetra EnLight quotes will become non-recoverable
- The distinction of Xetra EnLight HF and LF quotes
- Frequency restrictions

3.1 Non-recoverable Xetra EnLight Quotes

With T7 Release 11.0, Xetra will introduce a change in the Xetra EnLight functionality to only offer non-recoverable Xetra EnLight quotes to minimize its (persistence layer) footprint. It will be possible to recover the state of the Xetra EnLight quote but not the history.

3.2 New distinction of Xetra EnLight HF and LF Quotes

With T7 Release 11.0, there will be a new Xetra EnLight quote attribute to differentiate between Xetra EnLight High Frequency and Xetra EnLight Low Frequency quotes. It will be possible to set the HF/LF attribute at the time of the Xetra EnLight quote entry.

Xetra EnLight LF quotes will be distributed to all sessions of all Xetra EnLight respondents and to all sessions of all Xetra EnLight requesters. The automatic pulling of quotes may be possible for Xetra EnLight LF quotes.

Xetra EnLight HF quotes will only be distributed to the submitting session of the related Xetra EnLight respondent and all subscribed sessions of the Business Unit of the requester of the related Xetra EnLight negotiation. Furthermore, Xetra EnLight HF quotes will be deleted in case of a T7 session loss of the submitting session and cannot be recovered. The automatic pulling of quotes will not be possible for Xetra EnLight HF quotes.

3.3 Frequency Restrictions for Xetra EnLight Quotes

With T7 Release 11.0, frequency restrictions will be established, separately for Xetra EnLight LF and Xetra EnLight HF quotes.

Distribution of LF quote information:

- LF quote information will always be distributed immediately, i.e. there is no netting of information.
- The frequency of LF quotes will be limited on a respondent level (for each negotiation) by the LDS server and will be configurable.
- Please note that the deletion of LF quotes is always possible.

Distribution of HF quote information

- Only the first HF quote within a negotiation will be published immediately, whereas follow-up HF quotes will be stored only in the Negotiation context.
- Later HF quote information will be distributed per time interval/frequency in form of a snapshot of all HF quotes (on negotiation level) if there are additional quotes.
- The frequency for the HF quote information/snapshots might vary up to several milliseconds.

3.4 Impact on Interfaces

The following chapter outlines the changes to interfaces to support the functionality. The changes are described in a general fashion to provide an indication of the upcoming amendments. For detailed changes, please refer to the interface manuals and to the *Online Help* in the GUIs.

3.4.1 ETI

The *EnterQuote* request will be enhanced by a field *QuotingFrequency* for the HF/LF attribute of the quote. For the emergency clean-up of Xetra EnLight HF quotes a new request *DeleteAllLDSQuotes* will be introduced.

A new *QuoteBookSnapshot* request will force the LDS server to send a snapshot of the quote book within the respective broadcast stream. This snapshot message delivers data for:

- Respondent: Only LF quotes of the selected active negotiation
- Requester: HF and LF quotes for an active negotiation

3.4.2 T7 Trader GUI

The T7 Trader GUI will reflect the changes.

3.4.3 XML Reports

In the existing XML report TC600 Xetra EnLight Maintenance a new field will be introduced:

quotingFrequency:

Description: This field indicates the quoting frequency for Xetra EnLight quotes.

Format: alphanumeric 1.

Usage: Mandatory

<u>Valid Value</u>	<u>Decodes</u>	<u>Description</u>
1	LF	Low Frequency
0	HF	High Frequency

4. Message Encryption for ETI Low Frequency Gateways

With T7 Release 11.0, an additional connectivity option for ETI Low Frequency Gateways will be offered, supporting payload encryption via OpenSSL (TLS 1.2 – restricted cipher-suites).

The *Network Access Guide* will provide more details.

5. Further Changes and Enhancements

With T7 Release 11.0, Deutsche Börse will introduce the following additional changes and enhancements.

5.1 Xetra EnLight AutoEx Expiry Time now defined as Duration

With T7 Release 11.0, the expiry time for the quote collection of Xetra EnLight Automatic Execution (AutoEx) will be defined by the requester not anymore as a point in time but as a duration. Once a negotiation event will be started, the actual AutoEx expiry time will be calculated based on this duration and will be disseminated in notifications and reports as it is the case today.

The change will avoid problems with the synchronization of clocks between participant and the T7 system in case of short AutoEx durations below 500 ms.

The following ETI requests will be modified by replacing the field *AutoExecExpiryTime* with the field *AutoExecDuration*:

- Xetra EnLight Open Negotiation Request
- Xetra EnLight Update Negotiation Request

5.2 Change in Handling of Historical ETI News and risk notification messages

With T7 Release 11.0, the sequence number of ETI *News* and of ETI risk notification messages (AppID == 6 Risk Control) will be reset to 1 overnight each day. No historical messages will be offered via ETI.

The following messages are concerned:

- News
- Legal Notification
- Entitlement Notification
- Party Action Report
- Gap Fill

Historical *News* messages will be offered via T7 Trader GUI. Historical risk notification messages will not be offered via T7 anymore.

5.3 The DSCP in EOBI will indicate unchanged BBO

With T7 Release 11.0, the Differentiated Services Field Codepoints (DSCP) in the packet header for EOBI messages will reflect the special situation when a matching order does not improve the Best Bid Offer (BBO) while moving the midpoint of best bid and ask. In this case, the DSCP's value series

```
VV_POOL_2_EXP_LU_T7_EXECUTION_SUMMARY  
VV_POOL_2_EXP_LU_T7_NARROWED_SPREAD_AFTER_EXECUTION  
VV_POOL_2_EXP_LU_T7_WIDENED_SPREAD_AFTER_EXECUTION
```

will be set to $0b0*111*1100 = 0x7C = 124$.

5.4 Modification of Minimum Quote Size

With T7 Release 11.0, the minimum quote size is aligned with the minimum order size and may be smaller than 1. This is valid also for fast markets.

5.5 Modification of XML report TL001 System Transaction Overview

With T7 Release 11.0, the XML report TL001 System Transaction Overview will be modified in two aspects:

- The format of the field *limit* will be modified from numeric 9 to numeric 11.
- The field *aT* will be removed from the text report and will be displayed in the XML report only.

5.6 Modifications in XML report field *errDescription* and in XML report TR166

With T7 Release 11.0, a number of changes to the short code processing logic will be introduced. Concerning XML reports, this will require the following modifications.

The existing XML report field *errDescription* will be modified in its valid values:

New valid values:

- 27: Retroactive or intraday changes are not permitted
- 28: Uploads with ValidFromDate in the future can only be processed for the next trading day (T+1)
- 29: Changing classification rule is not permitted
- 30: Modification rejected, short code not registered in database

Modified valid value:

- 2: Registration rejected, short code/algoid already registered in database

The field *errDescription* is used in the following XML reports:

- TR160 Identifier Mapping Error
- TR162 Algo HFT Error

With T7 Release 11.0, new field groups will be introduced in the structure of the existing XML report TR166 *Identifier Mapping Final Error Report*. The purpose is to provide trading participants with every single relevant short code the total values are based on. Please refer to the XML Report Reference Manual T7 11.0 and to the XML Report Manual Modification Notes T7 11.0 for details.

5.7 Removal of Issuer Mnemonic from RDI / RDF

With T7 Release 11.0, the issuer mnemonic field will be removed from the RDI and RDF interfaces.

- RDI: Instrument Snapshot message. *Issuer* (106).
- RDF: AllTradableInstruments file. *Issuer Mnemonic* (column 108 respectively DD).

6. Change Log

No	Date	Log entry
1.0	26 August 2022	Publication